

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-007982**Date Inspected:** 31-Jul-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Du Zhi Qun**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower and subassembly**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) Steve Hall was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island, in Shanghai, China. QA observed and/or found the following:

**Sub assembly bay 6**

This QA received ZPMC Non Destructive Testing (NDT) notification No. 003827 and performed Magnetic particle Testing (MT) of approximately 15% of the welds previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA generated a MT report for this date. The weld designations are as follows: SSD1-DPSA4-7B/B-3, ESD1-DPSA4-13B/B-20~25, 3~7, 12, 13, 16 and 17, ESD1-DPSA4-12B/B-3, 20~25, 4~7, 12, 13, 16 and 17.

NOTE: The following welds listed on this notification could not be located by this QA in bay 6:

NSD1-DPSA4-7B/B-4~7, 12, 13, 16, 17 and 20~25.

**Tower bay 10**

This QA observed ZPMC qualified welding personnel identified as 057266 perform FCAW welding on north tower skin D weld joint identified as NSD1-FDSA4-3D/D-020. ZPMC QC identified as Mr. Du Zhi Qun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2332-Tc-P5-F.

This QA observed ZPMC qualified welding personnel identified as 057244 perform FCAW welding on north

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tower skin D weld joint identified as NSD1-FDSA4-3D/D-019. ZPMC QC identified as Mr. Du Zhi Qun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2332-Tc-P5-F.

This QA observed ZPMC qualified welding personnel identified as 054069 perform FCAW welding on north tower skin D weld joint identified as NSD1-FDSA4-3D/D-056. ZPMC QC identified as Mr. Du Zhi Qun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2332-Tc-P5-F.

This QA observed ZPMC qualified welding personnel identified as 053116 perform FCAW welding on north tower skin D weld joint identified as NSD1-FDSA4-3D/D-033. ZPMC QC identified as Mr. Du Zhi Qun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2332-Tc-P5-F.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (15000422372), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Hall,Steven	Quality Assurance Inspector
<b>Reviewed By:</b>	Prue,Erik	QA Reviewer

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